

## Gelecek Bize Ne Vaad Ediyor?

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Üriner sistem taş hastalığı, özellikle bazı coğrafyalarda sık görülen ve prevelansı da gittikçe artan bir hastalıktır (Scales ve ark. 2012). Hızla ilerleyen teknolojinin etkisi ile uzun yıllar boyunca etkin ve minimal invazif cerrahini arayışı içindeki endoürologların kullandığı aletler boyut olarak küçülmüş, optik ve fonksiyonel kapasiteleri artmıştır (Scotland ve ark. 2017; Huusmann ve ark. 2017). 1964'te V. Marshall ilkel bir fleksible fiberoskopu (fURS) kullanmasından günümüze kadar teknolojideki ilerleme, görüntüleme sistemlerinin gelişmesi ve deneyimin giderek artması fleksible üreterorenoskopu üst üriner sistem taş ve tümörlerinde etkin ve öncelikli tedavi seçenekleri arasına koymuştur (Marshall 1964; Turk ve ark. 2016; Assimos ve ark. 2016; Kuroda ve ark. 2016).

Minimal invazif doğası ve teknolojik gelişime açık olması fURS'yi günümüzde olduğu gibi gelecekte de popüler teknikler arasında tutacaktır. Bu nedenle RIRC'in eksikliklerini ve yetersizliklerini bilmek, bu cerrahide kullanılan aletlerin geliştirilmesi açısından önemlidir. RIRC; fURS dışında üreteral erişim kılıfı (ÜEK), kılavuz tel, üreteral stent, balon dilatör, irrigasyon pompası, lazer probu ve cihazı, basket kateter, yabancı cisim forsepsi, J-J stent gibi kombine cihaz ve malzemelerin kullanıldığı bir sistemdir. Başarı için sistemi oluşturan tüm parçaların sürekli gelişimi amaçlanmaktadır. Cerrahinin başarısını ve cerrahin ergonomisini artırmanın yanı sıra olası komplikasyonları azaltmak için de sadece fURS'nin değil bu yardımcı aletlerin geliştirilmeye ihtiyacı vardır.

Fleksible üreteroskop boyutları gün geçtikçe küçülmekte ve ergonomisi arttırılmaktadır. Çalışma kanal çaplarında beraberinde daralması minyatürize edilmiş yardımcı ekipmanlara olan ihtiyacı arttırmaktadır. Gelişen teknoloji cihaz ve

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